CLAIMS   (18)

1.   An intelligent control platform for routing, switching
5   and mixing audio/visual signals, comprising:

      a plurality of input ports configured to define
particular ones of a multiplicity of program sources;

      a plurality of output ports;

      a control processor;

10   a plurality of selectable operational mode selection
controls; and

      an adaptively configurable switch fabric, wherein the
switch fabric defines particular ones of a multiplicity of
operational signal interconnects in operative response to
15   selection of a corresponding one of the selectable operational
modes.

2.   An intelligent control platform for routing, switching
and mixing audio/visual signals, comprising:

20   a plurality of input ports, each input port configured
to define particular ones of a multiplicity of program sources,
each input port receiving program signals from a corresponding
program source;

      a plurality of output ports, each output port
25   configured to define particular ones of a multiplicity of
destinations, each output port providing program signals to each
corresponding destination; and

      an adaptively configurable program signal matrix
circuit, coupled to receive program signals from each input port
30   and to provide program signals to each output port, the
particular input and output ports selected in accordance with a
mode select circuit, the mode select circuit adaptively
configuring the matrix to pass program signals along a default
signal path devised to route the signal solely from the source

35

-24-

to the destination while disabling any potential feedback signal
paths.

5

    3.   The intelligent control platform according to claim 2,
further comprising internal fader controls, the default signal
path configurable to direct program signals through the faders
in a first operational mode, and to direct signals such that they
10   bypass the faders in a second operational mode.

    4.   The intelligent control platform according to claim 2,
further comprising means for coupling the default signal path
through an external mixer, the default signal path configurable
15   to direct the program signals through the mixer in a first
operational mode, and to direct signals such that they bypass the
mixer in a second operational mode.

    5.   The intelligent control platform according to claim 4,
20   wherein the operational modes are selected from the group
consisting of digitize, layback, edit and dub modes.

    6.   The intelligent control platform according to claim 2,
wherein the program signal matrix circuit comprises a multi-
25   channel crosspoint matrix fabric, the crosspoint matrix fabric
including switch energized crosspoint coupling nodes, the
switches energized to define signal routing interconnects under
software program control of a microprocessor.

30

35